

AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double brackets indicating deletions.

LISTING OF THE CLAIMS

1. (Currently Amended) A radio for a communication system, the radio transmitting a carrier signal having plural time slots designated as active and inactive time slots by a system controller, the radio comprising:

a modulator that modulates the carrier signal with transmit data and with frequency and time slot identifier data during active time slots when the transmit data is supplied from the system controller and discontinues modulation of the carrier signal with transmit data during inactive time slots when random bits are supplied from the system controller; and

a transmitter that wirelessly transmits the carrier signal provided by said modulator.

2. (Original) The radio of claim 1, wherein said modulator discontinues modulation of the carrier signal gradually over at least a two-symbol time period.

3. (Currently Amended) The radio of claim 1, wherein the frequency and timeslot identifier data includes sync data and Coded Digital Control Channel Locator information and said modulator modulates the carrier signal with transmit data, sync data and Coded Digital Control Channel Locator (CDL) information supplied from the system controller during active time slots and modulates the carrier signal only with sync data and CDL information during inactive time slots.

4. (Previously Presented) The radio of claim 1, wherein said transmitter wirelessly transmits the carrier signal to a mobile station in a Time Division Multiple Access (TDMA) communication system.

5. (Currently Amended) A method of reducing adjacent and co-channel interference generated by a radio, the radio transmitting a carrier signal having plural time slots designated as active time slots and inactive time slots by a system controller, the method comprising:

modulating the carrier signal with transmit data and with frequency and time slot identifier data during active time slots when the transmit data is supplied by the system controller;

discontinuing modulation of the carrier signal with transmit data during inactive time slots when random bits are supplied by the system controller; and

wirelessly transmitting the carrier signal.

6. (Previously Presented) The method of reducing adjacent and co-channel interference of claim 5, wherein said step of modulating comprises modulating the carrier signal with transmit data, sync data and Coded Digital Control Channel Locator (CDL) information supplied by the system controller and said step of discontinuing modulation comprises modulating the carrier signal only with sync data and CDL information.

7. (Currently Amended) The method of reducing adjacent and co-channel interference of claim 5, wherein the frequency and timeslot identifier data includes sync data and Coded Digital Control Channel Locator information and said step of modulating comprises modulating the carrier signal with transmit data, sync data and Coded Digital Control Channel Locator (CDL) information supplied by the system controller and said step of discontinuing modulation

comprises modulating the carrier signal only with sync data and CDL information.

8. (Previously Presented) The method of reducing adjacent and co-channel interference of claim 5, wherein the carrier signal is wirelessly transmitted by the radio to a mobile station in a Time Division Multiple Access (TDMA) communication system.

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Currently Amended) An article of manufacture taking the form of a computer-readable medium for reducing adjacent and co-channel interference generated by a radio, the radio transmitting a carrier signal having plural time slots designated as active time slots and inactive time slots by a system controller, the article of manufacture comprising:

a modulation source code segment for causing a computer to modulate the carrier signal with transmit data and with frequency and timeslot identifier data when transmit data is supplied by the system controller during active time slots;

a discontinuation source code segment for causing the computer to discontinue modulation of the carrier signal with transmit data when random bits are supplied from the system controller during inactive time slots; and

a transmission source code segment for causing the computer to wirelessly transmit the carrier signals.

16. (Previously Presented) The article of manufacture of claim 15, wherein the carrier signals are Time Division Multiple Access (TDMA) carrier signals.

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)